



Workshop 2 Agenda

December 15, 2015

4-6:30pm

Time (mins)	Agenda	Leading
25	Welcome, Agenda Overview, & Workshop Objectives	Facilitation Team
10	Edina's 25/25 Goals and the EEC (Energy & Environment Commission)	Facilitation Team, EEC Members
10	Xcel Energy's Sustainability Activities	Xcel Energy
25	Deeper Dive: Community Data by Sector	Facilitation Team
10	Break	
45	Focus Area Priorities	Facilitation Team, Energy Action Team
15	Present Proposed Vision Statement Questions and Comments	Vision Small Group
10	Wrap up and Topics for Next Time	Facilitation Team

Welcome and Overview:

Last time, we went over the program and process, and today we want to make sure it resonates. We want to leverage the great work the City is doing and get you good information about energy use in the community. Today, we will start working on focus areas and review the work completed between workshops 1 and 2 on the vision statement.

Getting to know those at the table:

- Name
- Affiliation
- If you could give the City of Edina one energy gift, what would it be?

Emma Struss: Partners in Energy facilitator, will bike as often as I can.



Sarah Zarrin: Resident, EEC member, will work with the City to bring energy efficient policies

Rozy Eastaugh: Junior at Edina High School, would give solar panels for every City building

Carolyn Jackson: Resident, would give free energy audits to every house

Kyle Sawyer: Edina employee, would give grant money to pursue energy efficiency goals

Kevin Staunton: City Council, would approve a community solar garden lease

Kevin Schwain: Xcel Energy employee and resident, would put an EV in every garage

Sarah Klauer: Partners in Energy facilitator, will carpool as often as possible

Bill Sierks: EEC member, would give LEDs

M. Sarah: CenterPoint Energy, would give energy audits for all commercial buildings

Curt Johanson: Would give LED for all residents

Roy Jenson: Resident, would get everyone in the door for energy audits

Tami Gunderzik: Xcel Energy, would make everyone aware of their energy use

Richard Manser: EEC, would give the City of Edina an award recognizing it as the lead sustainable city in Minnesota

Ross Bintner: Edina City employee, would give small fusion generators. "Clean power so cheap you don't have to meter it."

Marshall Silberstein: Resident, would give rechargeable batteries

Jenny Edwards: Partners in Energy facilitator, will give an actionable plan that everyone feels really good about that gets you to your goals

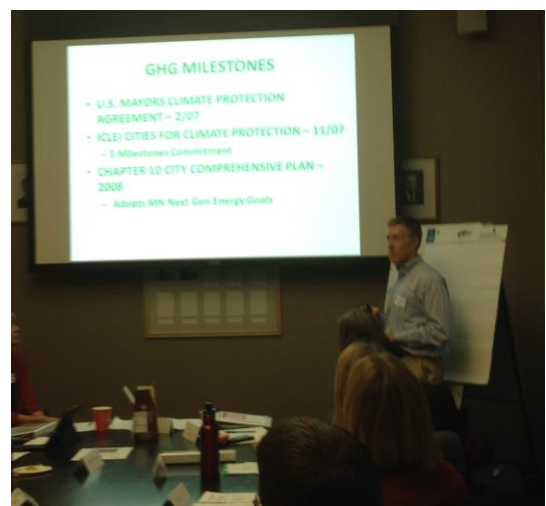
Michelle Swanson: Xcel Energy employee

Rick Murphy: Local business representative.

Edina's 25/25 Goals and the EEC

Bill Sierks and Sarah Zarrin, EEC members presented.

- Greenhouse gas reduction has been the top priority for the EEC for the past 3-4 years.
- We focused on the City first. We wanted the City to lead by example.
 - To get traction, we found that it was critical to get the City manager on board and to talk to the right people.
- Edina was one of the first cities to have an environmental chapter. Additionally, the City joined ICLEI, US Mayor's Climate Protection Agreement, and adopted state energy goals.
- Edina's Comprehensive Plan has two goals—30% or 25% emissions reduction by 2025, which will need to be aligned. The State's baseline use year is 2005, but we have good data for 2007.





- Edina is down about 8.9% from 2007, thanks largely to Xcel Energy's greening of their power supply.
- People weren't driving as much during the recession, and there is more wind and solar than in 2007. We're not really doing anything but using the same amount of power as residents and businesses.
- The EEC made recommendations to the City:
 - Establish Edina's carbon footprint.
 - Develop GHG reduction targets for City operations.
 - Develop local action plan.
 - Provide funding support.
- We (EEC) have been working on energy, solid waste, composting, air and water quality. We were not getting much traction with energy, so we're focusing on energy now.
- We have learned to put whatever we have recommended to the City as a policy.
 - Edina residents recycle more than the average community—this is a success with doing policy solutions. Yard waste was another example at the state level. Overnight everyone switched to the compostable yard waste bags. Also business recycling—Sarah brought together a broad stakeholder base and it worked—businesses are benefiting and actually reducing costs by 33%.

Discussion:

- Is population growth ever taken into consideration?
 - Yes, the regional indicators show you population projections. It's in there and you can show what additional reductions you have to make based on expected growth.
- While there are many residents in the City, there is more energy usage in the businesses. Businesses might be a low-hanging fruit.
- It was stated that regional indicators has identified over \$ 500,000 savings for City buildings. Can you explain?
 - It doesn't give you suggestions, just compares energy usage to comparable buildings. We have hired a consultant to look into opportunities.
- Mentioned that wastewater and solid waste contributes to GHG. Why?
 - Moving and treating water takes a huge amount of energy.

Xcel Energy Sustainability Activities

| Michelle Swanson, Community Relations Manager with Xcel Energy, presented.

- Xcel Energy serves eight states and is the highest property tax payer in the State of MN.
- The power plant closest to Edina is Black Dog in Burnsville. It ceased burning coal in April 2015. Xcel Energy has an application in to build a natural gas combustion chamber there.
- Xcel Energy is an electric and gas utility.
- Xcel Energy participates at the community level in chambers, civic boards, non-profit boards, etc. Xcel Energy has a small foundation as well.
- Xcel Energy is the most regulated company in the State, and in the most regulated industry in the nation. They have a lot of regulators, and almost everything they do in the State of Minnesota needs to go through the Public Utilities Commission.



- Xcel Energy is the #1 wind energy provider in the US, and has been for 10 years. Top 10 in solar in US, and third largest in voluntary green energy programs.
- Xcel Energy has a changing fuel mix—55% carbon free electricity is our current mix, which is above the national average. We are targeting over 60% carbon free in 2030, including a proposal for a big drop in coal between 2015 and 2030.
- Xcel Energy's first community solar garden went live in September. There are 100's of MW in the queue and 13 projects have entered the design and construction phase.

Discussion:

- What are Xcel Energy's plans to change street lights to LEDs? Also, your infrastructure is old...have you done analysis on that?
 - Xcel Energy has a LED street light filing in right now, with a five year proposed implementation. Plant infrastructure is a part of what Xcel Energy is looking at—to improve efficiency as things come onto the grid, including things like voltage optimization. They have projects on both sides of the meter.
- Have you considered a biomass plant?
 - Biomass is a part of Xcel Energy's energy mix. For example, Red Wing Generating Station burns refuse-derived fuel.
- Is hydrogen power a consideration?
 - Xcel Energy hasn't looked at that lately, and is more focused on other things, such as storage technologies.

Deeper Dive: Community Data

Feel free to take notes as we go on to the Focus Area worksheet, which we'll come back to after the break. We'll ask you to try to pick focus areas. We'll talk about focus areas, goals, and strategies after the break.

- Looking at the City's 2007 ICLEI GHG inventory, electricity emissions are about 55% of the total GHG emissions.
- At the grid level, the most up-to-date filed plan is that electricity carbon will be down 35% between 2012 and 2025.
 - Comment: This is not population adjusted.
 - There is significant potential for the population of Edina to grow in the next few years. One opportunity is when a developer submits a request for an exception from the Comprehensive Plan, and in exchange we feel like we can improve on energy and sustainability. How can we provide a measurable demand for helping the developer?
 - Can you share municipal government usage?
 - City facilities are about 36M kWh.
- Sometimes maps showing energy use intensity are helpful for thinking about where to do outreach.
 - Comment: If you show the same maps for natural gas, it'll shift dramatically, because natural gas has more to do with the size of the house.
 - Can we get the same data for CenterPoint?
 - We (CenterPoint) don't have the same level of data—it's hard to pull it for geographic areas. And there are privacy concerns as well.



- The top 20% of residential energy users use 45% of the energy.
 - Can you give break points for kWh/year?
 - Yes.
- Not all households are created equal—when you think about strategies, think about which users to target.
 - 6000-9000 kWh is average use for premises Xcel Energy serves.
 - It would be great to see water usage etc. in comparison to other communities.
 - Your paper energy bill report compares you to a house of a similar size—you can start to see how you actually compare if you provide some basic information. CenterPoint has a similar program.
 - There's even a strategy option for people to have a campaign helping people log on to the website to see their energy use.
- Many homes in Edina were built in 50's-80's. For efficiency, it matters when housing stock was built.
- There is an opportunity in the residential space to do more with whole home energy efficiency programs, high-savings programs, and wind energy subscriptions.
- Municipal and school facilities use about 12-13% of commercial/industrial use. Municipal data includes their entire utility operation.
- Top 20% of businesses energy users use 87% of the business energy use in Edina. This is about 400 businesses.
- Energy efficiency programs in the commercial space has amounted to about 1.8% savings annually. Lighting is a big opportunity in small and large buildings.
- We want to make sure we're matching with the best opportunities that are out there, and there are programs outside of Xcel Energy's programs. Please bring ideas you have about other programs to the table.
- Commercial opportunities include targeting large users and "repeat customers", leveraging a tracking/recognition system, financing options within the City, and increasing subscriptions to renewable energy options.
 - When you subscribe to Windsource®, Xcel Energy retires RECs.
 - How much does Windsource® increase the energy bill?

Focus Area Priorities

The group took time to reflect on the Focus Area Worksheets.

- Comment: In looking at the worksheet, it seems like we're getting ahead of ourselves. There are things on the sheet—say, information kiosks—that are hard to turn into savings. What is our low-hanging fruit? Do we wish to look at this as a marketing/awareness/relations campaign or are we doing something from a technical side? For example, we can look at the highest-impact businesses, but that won't be visible to most of the Edina residents. There are two very different approaches.
 - Response: This is part of what the group will work on.



Does anyone have an initial residential focus area that they thought met the criteria on the worksheet?

- All sports teams need service projects.
- I'd like to do something that's kid focused and think it's something lots of people could get excited about!
 - We also do that through the schools as well
- City policy
- Churches have all been trying to raise money—energy efficiency is something that could be high cost savings for them
- Rebate outreach.
 - It sounds like an awareness campaign and really helping people to know what's out there.
- We have subsidized HES visits, and that's really worked.
- We have a lot of neighborhood associations, so things that could be social, like a Tupperware party for GHG reduction.
 - Are associations active in Edina?
 - It varies.
- Carpooling tool
- Redevelopment seems like an interesting opportunity—replacing big houses with smaller houses. When you're doing the work, making sure you're doing it the right way.
- Windsource® program is very underutilized for a potential 100% reduction
- Feedback tools/smart thermostats
- Schools are doing more service learning
- Neighborhood recognition of energy use



Does anyone have a business focus areas?

- Chamber of Commerce
 - There are also two rotary clubs, and the 50th and France business association.
 - Large and small businesses are hit through the chamber of commerce
- Certified Public Accountant associations
- Building management for healthcare focus area
 - Building managers also have professional associations.
- Large business leadership.
- Shopping malls—manager of the shopping malls
- City policy
- Recognition and awards for businesses that have met certain business standards.
- Windsource®

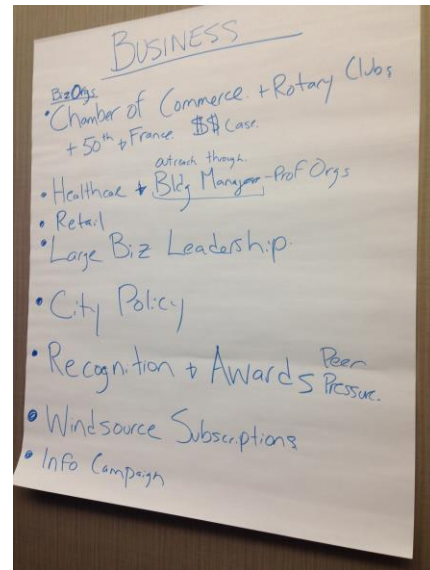


Are there other focus areas?

- Hennepin County facilities
- Edina as an “Energy Star” city.
- Could re-visit Edina unplugged
- New construction and maintenance for schools

Does anyone have a data or follow-up question that needs to be addressed before the next workshop?

- Would like to know what sectors the top 20% of businesses that use power are. (Restaurants, Grocery, Retail)
 - When data gets to be narrow, there are also data privacy concerns. Also, the data isn’t perfect. Within those constraints we can absolutely work on that.



Proposed Vision Statement

Between workshops 1 and 2, a small group took time to work on a visions statement: Carolyn, Rozy, and Sarah Zarrin. This group drafted three statements, which were distributed to this broader group for feedback and voting.

- Two votes for option 1, five votes for option 2, and two votes for option 3.
- The group took the visioning worksheets the group completed at Workshop 1, and started with statements and elements from statements from the worksheet to compose a vision. They then incorporated Edina’s greenhouse gas goal into the vision. Each person in the small group contributed.

The Proposed Vision Statement:

Edina’s residents, schools, businesses, and government successfully reduce the community’s greenhouse gas emissions by 25% by the year 2025, through strategies and actions that are sustainable, practical, and measurable.

Does anything stand out in the statement?

- There’s a shared goal, and it identifies four players
- It is practical and measurable
- The 25% by 2025 really stands out

Are there any proposed changes?

- Should we add the word “will”?
 - It depends on the tense of the statement
- Should we add the 2007 baseline?
 - The statement seems like it’s pretty long
 - Does “measurable” capture the sentiment?

